

**【CLAIMS】****【Claim 1】**

In a method for addressing a media resource for a media file including a meta data box including a DID (digital item declaration) and a media data box, a media resource addressing method comprising:

5     extracting a corresponding media resource according to reference information of the media resource recorded in the DID;

       storing the extracted media resource in the media data box;

       generating standard location information of the media resource;

10     storing the generated standard location information in the meta data box; and

       filing the meta data box and the media data box.

**【Claim 2】**

The media resource addressing method of claim 1, wherein the

15     standard location information of the media resource is generated by using an offset value of the media data box storing the media resource.

**【Claim 3】**

The media resource addressing method of claim 1, wherein the standard location information is generated by using an offset value of an MPEG (motion picture experts group)-4 file stored in the media data box and location information of the media resource of the MPEG-4 file when  
5 the media resource is provided in the MPEG-4 file.

**【Claim 4】**

The media resource addressing method of claim 3, wherein location information of the media resource provided in the MPEG-4 file is a track value provided in the meta data box of the MPEG-4 file.

10 **【Claim 5】**

The media resource addressing method of claim 3, wherein location information of the media resource provided in the MPEG-4 file includes an ODID (object descriptor ID) and an ESID (elementary stream ID) of the media resource.

15 **【Claim 6】**

The media resource addressing method of claim 1, wherein the meta data box further comprises a local item region, and the standard

location information is stored in the local item region.

**【Claim 7】**

The media resource addressing method of claim 1, wherein the media file is an MPEG-21 file.

5      **【Claim 8】**

In a method for addressing a media resource for a meta data box including a DID (digital item declaration) and a media file including a media data box, a media resource addressing method comprising:

10      reading reference information of a media resource recorded in the DID;

reading reference information of the media resource of a second media file when the media resource is provided in the second media file;

15      using the reference information of the media resource and the reference information of the second media file, and generating standard location information;

storing the standard location information in the meta data box; and  
filing the meta data box.

**【Claim 9】**

The media resource addressing method of claim 8, wherein the standard location information is formed including a URL (uniform resource protocol) at which an MPEG (motion picture experts group)-4 file is provided and combination of track values for indicating the media resource in the MPEG-4 file, when the second media file is an MPEG-4 file.

**【Claim 10】**

The media resource addressing method of claim 8, wherein the standard location information is formed including a URL (uniform resource protocol) at which an MPEG (motion picture experts group)-4 file is provided and combination of an ODID and an ESID of the media resource, when the second media file is an MPEG-4 file.

**【Claim 11】**

The media resource addressing method of claim 8, wherein the standard location information is formed including a URL (uniform resource protocol) at which an MPEG (motion picture experts group)-21 file is provided and combination of offset values of a region in which the media

resource is stored from among the media data box of the MPEG-21 file,  
when the second media file is an MPEG-21 file.

**【Claim 12】**

The media resource addressing method of claim 8, wherein the  
5 standard location information is formed including a URL (uniform resource  
protocol) at which an MPEG (motion picture experts group)-21 file is  
provided, a combination of offset values of a region in which the MPEG-4  
file is stored from among the media data box of the MPEG-21 file, and a  
combination of track values for indicating the media resource in the  
10 MPEG-4 file, when the second media file is an MPEG-21 file and the  
media resource is an MPEG-4 file provided in the media data box of the  
MPEG-21 file.

**【Claim 13】**

The media resource addressing method of claim 8, wherein the  
15 standard location information is formed including a URL (uniform resource  
protocol) at which an MPEG (motion picture experts group)-21 file is  
provided, a combination of offset values of a region in which the MPEG-4

file is stored from among the media data box of the MPEG-21 file, and a combination of an ODID and an ESID of the media resource, when the second media file is an MPEG-21 file and the media resource is an MPEG-4 file provided in the media data box of the MPEG-21 file.

5     **【Claim 14】**

In a media resource addressing device for an MPEG (motion picture experts group)-21 file including a meta data box including a DID and a media data box, a media resource addressing device comprising:

10     a DID reader for reading reference information of the media resource recorded in the DID, determining whether the DID refers to the media resource in the file or out of the file, and outputting the reference information of the media resource when the DID refers to the media resource in the file;

15     a media resource extractor for extracting the media resource according to the reference information output by the DID reader, and storing the media resource in the media data box;

a standard location generator for generating standard location

information of the media resource, and storing the standard location information in the meta data box; and

a filing unit for filing the meta data box and the media data box into a single file.

5      **【Claim 15】**

In a recording medium for writing a media resource addressing program of an MPEG-21 file including a meta data box including a DID (digital item declaration) and a media data box, a recording medium for writing a media resource addressing program comprising:

10            reading media resource reference information recorded in the DID; extracting the media resource, storing the extracted media resource in the media data box, using an offset value of the media data box storing the media resource, and generating standard location information of the media resource when the DID refers to the media resource in the file; and

15            using location information of the media resource, and generating standard location information of the media resource when the DID refers to the media resource out of the file.

**【Claim 16】**

The recording medium of claim 15, wherein the media resource addressing program further comprises: reading information for referring to the media resource from a second media file, and generating the standard  
5 location information by combining location information of the second media file and location information of the media resource defined by the second media file, when the DID refers to the media resource out of the file and the media resource is included in the second media file.